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1 [A data locality optimizing algorithm](#)

Michael E. Wolf, Monica S. Lam  
May 1991 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1991 conference on Programming language design and implementation PLDI '91**, Volume 26 Issue 6

**Publisher:** ACM Press

Full text available: [pdf\(1.54 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Validation of Scientific Programs](#)

William E. Howden  
June 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(2.92 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [1/k phase stamping for continuous shared data \(extended abstract\)](#)

Sumeer Bhola, Mustaque Ahamad  
July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing**

**Publisher:** ACM Press

Full text available: [pdf\(1.08 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interactive distributed applications are a relatively new class of applications that are enabled by sharing continuously evolving data across distributed sites (and users). The characteristics of application data i very fine-grained updates that can atomically access a subset of the shared data, masking of update ef and irregular locality and contention for access. Existing programming approaches are not appropriate programming such continuous shared data in ...

4 [Special issue on independent components analysis: Misep—linear and nonlinear ICA based on n information](#)

Luis B. Almeida  
December 2003 **The Journal of Machine Learning Research**, Volume 4

**Publisher:** MIT Press


Full text available: [pdf\(957.09 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Linear Independent Components Analysis (ICA) has become an important signal processing and data a technique, the typical application being blind source separation in a wide range of signals, such as

biomedical, acoustical and astrophysical ones. Nonlinear ICA is less developed, but has the potential to become at least as powerful. This paper presents MISEP, an ICA technique for linear and nonlinear mixtures which is based on the minimization of the mutual information of the estimated components ...

##### 5 An architectural alternative to optimizing compilers

 Samuel P. Harbison

March 1982 **ACM SIGARCH Computer Architecture News , ACM SIGPLAN Notices , Proceedings of first international symposium on Architectural support for programming languages : operating systems ASPLOS-I**, Volume 10 , 17 Issue 2 , 4


**Publisher:** ACM Press

Full text available:  [pdf\(783.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Programming languages are designed to make programming productive. Computer architectures are designed to make program execution efficient. Although architectures should be designed with programming languages in mind, it may be as inappropriate to make the computer execute the programming language directly as it is to make the programmer use machine language. It is the compiler's job to match the programming language and the computer architectures, and therefore ...

##### 6 Decoupling QoS control from core routers: a novel bandwidth broker architecture for scalable support of guaranteed services

 Zhi-Li Zhang, Zhenhai Duan, Lixin Gao, Yiwei Thomas Hou

August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication SIGCOMM '00**, Volume 30 Issue 4


**Publisher:** ACM Press

Full text available:  [pdf\(504.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For scalable support of guaranteed services that decouples the QoS control plane from the packet forwarding plane. More specifically, under this architecture, core routers do not maintain any QoS reservation state, whether per-flow or aggregate. Instead, QoS reservation states are stored at and managed by bandwidth broker(s). There are several advantages of such a bandwidth broker architecture. Among others, it relies on core routers of QoS control functions such as admission control ...

##### 7 Text analysis and extraction: Opinion observer: analyzing and comparing opinions on the Web

 Bing Liu, Mingqing Hu, Junsheng Cheng

May 2005 **Proceedings of the 14th international conference on World Wide Web**

**Publisher:** ACM Press


Full text available:  [pdf\(332.66 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Web has become an excellent source for gathering consumer opinions. There are now numerous Web sites containing such opinions, e.g., customer reviews of products, forums, discussion groups, and blog papers. This paper focuses on online customer reviews of products. It makes two contributions. First, it proposes a framework for analyzing and comparing consumer opinions of competing products. A prototype system *Opinion Observer* is also implemented. The system is such that with a ...

**Keywords:** information extraction, opinion analysis, sentiment analysis, visualization

##### 8 Privacy 1: Location disclosure to social relations: why, when, & what people want to share

 Sunny Consolvo, Ian E. Smith, Tara Matthews, Anthony LaMarca, Jason Tabert, Pauline Powledge

April 2005 **Proceedings of the SIGCHI conference on Human factors in computing systems**

**Publisher:** ACM Press

Full text available:  [pdf\(523.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Advances in location-enhanced technology are making it easier for us to be located by others. These new technologies present a difficult privacy tradeoff, as disclosing one's location to another person or service could be risky, yet valuable. To explore whether and what users are willing to disclose about their location to social relations, we conducted a three-phased formative study. Our results show that the most important factors are ...

factors were *who* was requesting, *why* the requester wanted ...

**Keywords:** experience sampling, location-enhanced computing, privacy, privacy classification, social relations, ubiquitous computing

9 Weighted proportional window control of TCP traffic

James Aweya, Michel Ouellette, Delfin Y. Montuno

July 2001 **International Journal of Network Management**, Volume 11 Issue 4


**Publisher:** John Wiley & Sons, Inc.

Full text available:  pdf(471.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article describes a technique for weighted proportional window control of elastic traffic such as the generated by TCP. This is achieved through the modification of the receiver's advertised window connections sharing the bottleneck link while taking into account the price that each user of a connection paid for the service and the total number of active connections sharing the bottleneck link. Copyright © John Wiley & Sons, Ltd.

10 High performance architectures: Speculative early register release

 Jesús Alastruey, Teresa Monreal, Víctor Viñals, Mateo Valero

May 2006 **Proceedings of the 3rd conference on Computing frontiers CF '06**

**Publisher:** ACM Press


Full text available:  pdf(675.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The late release policy of conventional renaming keeps many registers in the register file assigned in state containing values that will never be read in the future. In this work, we study the potential of a novel scheme that speculatively releases a physical register as soon as it has been read by a predicted last instruction references its value. An auxiliary register file placed outside the critical paths of the processor pipeline contains the early released values just in case they are ...


**Keywords:** optimization, physical register release, register file, register renaming

11 Research sessions: distributed systems: Efficient evaluation of queries in a mediator for WebSources

 Vladimir Zadorozhny, Louisa Raschid, Maria Esther Vidal, Tolga Urhan, Laura Bright

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**


**Publisher:** ACM Press

Full text available:  pdf(1.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We consider an architecture of mediators and wrappers for Internet accessible WebSources of limited query capability. Each call to a source is a WebSource Implementation (WSI) and it is associated with both a query capability and (a possibly dynamic) cost. The multiplicity of WSIs with varying costs and capabilities increases the complexity of a traditional optimizer that must assign WSIs for each remote relation in the query while generating an (optimal) plan. We present a two-phase Web Query Optimizer ...

12 Performance counters and state sharing annotations: a unified approach to thread locality

 Boris Weissman

October 1998 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the eighth international conference on Architectural support for programming languages and operating systems ASPLOS-VIII**, Volume 33 , 32 Issue 11 , 5


**Publisher:** ACM Press

Full text available:  pdf(1.76 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a combined approach for improving thread locality that uses the hardware performance monitors of modern processors and program-centric code annotations to guide thread scheduling on SMP. The approach relies on a shared state cache model to compute expected thread footprints in the cache line. The accuracy of the model has been analyzed by simulations involving a set of parallel applications demonstrating how the cache model can be used to implement several practical localities ...

13 Paper session I: quality models: ETL queues for active data warehousing

 Alexandros Karakasidis, Panos Vassiliadis, Evaggelia Pitoura  
June 2005 **Proceedings of the 2nd international workshop on Information quality in information systems IQIS '05**

**Publisher:** ACM Press

Full text available:  pdf(577.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Traditionally, the refreshment of data warehouses has been performed in an off-line fashion. Active Data Warehousing refers to a new trend where data warehouses are updated as frequently as possible, to accommodate the high demands of users for fresh data. In this paper, we propose a framework for the implementation of active data warehousing, with the following goals: (a) minimal changes in the software configuration of the source, (b) minimal overhead for the source due to the active nature of ...

14 Dynamic wavelength assignment for WDM all-optical tree networks

Poompat Saengudomlert, Eytan H. Modiano, Robert G. Gallager  
August 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 4

**Publisher:** IEEE Press

Full text available:  pdf(496.59 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We develop an on-line wavelength assignment (WA) algorithm for a wavelength-routed WDM tree network. The algorithm dynamically supports all  $k$ -port traffic matrices among  $N$  end nodes, where  $k$  denotes an integer vector  $[k_1, \dots, k_N]$  and end node  $i$ ,  $1 \leq i \leq N$ , can transmit at most  $k_i$  wavelengths and receive a  $k_i$  wavelengths. Our algorithm is rearrangeably nonblocking, uses the minimum ...

**Keywords:** graph theory, network reconfiguration, optical networks, resource management, wavelength assignment

15 Concise reference manual for the Series macro package

 Richard C. Waters  
July 1989 **ACM SIGPLAN Lisp Pointers**, Volume III Issue 1

**Publisher:** ACM Press

Full text available:  pdf(1.85 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Series expressions are transformed into loops by pipelining them---the computation is converted from a form where entire series are computed one after the other to a form where the series are incrementally computed in parallel. In the resulting loop, each individual element is computed just once, used, and then discarded before the next element is computed. For this pipelining to be possible, four restrictions have to be satisfied. Before looking at these restrictions, it is useful to consider a ...

16 Crowd and group animation

 Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton  
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**


**Publisher:** ACM Press

Full text available:  pdf(20.19 MB)

Additional Information: [full citation](#), [abstract](#)

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architectural software tools will be presented including the MASSIVE software ...

17 The elements of nature: interactive and realistic techniques

 Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, J. Stam, Jerry Tessendorf  
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

**Publisher:** ACM Press

Full text available:  pdf(17.65 MB)


Additional Information: [full citation](#), [abstract](#)

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production interactive simulation, and research perspectives on the difficult task of photorealistic modeling, render and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

## 18 [Concurrency control in advanced database applications](#)

 Naser S. Barghouti, Gail E. Kaiser  
September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3


**Publisher:** ACM Press

Full text available:  pdf(4.69 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** advanced database applications, concurrency control, cooperative transactions, design environments, extended transaction models, long transactions, object-oriented databases, relaxing serializability

## 19 [Common Lisp Object System specification](#)

 Daniel G. Bobrow, Linda G. DeMichiel, Richard P. Gabriel, Sonya E. Keene, Gregor Kiczales, David A. Moon  
September 1988 **ACM SIGPLAN Notices**, Volume 23 Issue S1

**Publisher:** ACM Press

Full text available:  pdf(6.88 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

### Introduction

The Common Lisp Object System is an object-oriented extension to Common Lisp as defined in *Common Lisp: The Language*, by Guy L. Steele Jr. It is based on generic functions, multiple inheritance, declarative method combination, and a meta-object protocol.

The first two chapters of this specification present a description of the standard Programmer Interface to the Common Lisp Object System. The first chapter contains a description of the concepts ...

## 20 [Independence in CLP languages](#)

 María García de la Banda, Manuel Hermenegildo, Kim Marriott  
March 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(465.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [reviews](#)





Studying independence of goals has proven very useful in the context of logic programming. In particular, it has provided a formal basis for powerful automatic parallelization tools, since independence ensures that goals may be evaluated in parallel while preserving correctness and efficiency. We extend the concept of independence to constraint logic programs (CLP) and prove that it also ensures the correctness and efficiency of the parallel evaluation of independent goals. Independence ...

**Keywords:** constraint logic programming, independence, parallelism

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